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| 50X1 | at | the 287th Rifle Re had the foll | ce voysk), classified together in Austria about lowing contents: giving definitions of an energy for war purposes | secret and received |
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| | ъ. | atomic bombs and "projectiles" fol in parenthesis. | weapons. It was stated projectiles. | that atomic weapons were that atomic weapons were the term comps was always put the types of atomic bombs |
| | | (1) Small calibe: 20,000 tons | r atomic bombs with the of TNT. | destructive power of |
| ••• | | (2) Medium calibe | er atomic bombs with the of TNT. | destructive power of |
| | | (3) Large caliber | r atomic bombs with the of TNT. | destructive power of |
| 50X1 | | ventional artiller | elative fire power of at | the manuals gave 50X1 omic weapons and con- n addition to atomic 50X1 |
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elements (Boyevyye radioaktivnyye veshchestva - BRV), emanating in the process of decomposition of the atoms, could be used in 50×1 atomic warfare.

either independently or in combination with some other contami-50×1 mants of chemical warfare for the purpose of contaminating areas, manpower, and equipment. (
tions of BRV were mentioned in the manual as effects of an atomic explosion, but they probably were.)

that the manual stated that BRV could be used either independently without an atomic explosion or combined with some type of chemical warfare.

specific compat radioactive elements which would or could be used,

- c. And finally, atomic radiation or radioactive rays (radioaktivnoye oblucheniye) were mentioned as one of the destructive effects developed by the explosion of an atomic bomb. This radiation was described as consisting of special rays similar to X-rays (Rentgenovskiye luchi), having a very strong effect on the human organism.
- 2. The following characteristics of an atomic explosion were given by the manual:
 - a. Intense bright light (yarkaya vspyshka).

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50X1

50X1

- b. Loud rolling explosion (rezkiyraskatistyy zvuk).
- c. Black cloud of smoke in the form of a mushroom (chernyy gribovidnyy stvol dyma) several kilometers high (h = neskol'ko kilometrov).
- 3. Explosion of a small caliber atomic bomb results in the following:
 - a. The destructive effect of the blast is spread at a speed of over 500 meters per second (s = boleye 500 metrov v sekundu). The speed, however, diminishes very rapidly after the first second following the explosion. Such a blast may be expected to cause the following damage:
 - (1) At 400 m. from the place of explosion tank cupolas will be blown away, concrete pill boxes ruined or leveled, and trenches, even those especially reinforced, will also be completely leveled.
 - (2) At 2,000 m. from the place of explosion, stone and brick buildings will be destroyed unless protected by natural barriers.
 - o. High temperatures are developed at the explosion. At the place of explosion temperatures of several million degrees centigrade will occur. The high temperature, however, decreases rapidly from the point of explosion. No details were given by the manual. The bright light and high temperature developing at the explosion may cause the following damage:
 - (1) Close to the place of explosion the intense bright light may cause complete blindness.
 - (2) Parts of the human body unprotected by clothing could receive severe burns.
 - (3) Wooden structures and trees would be set on fire or charred at a distance up to 800 m. from the point of explosion.

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| . • | · · · · · · · · · · · · · · · · · · · | | |
| 4. | the manual gave effects bombs. No effects for the medium and large the manual. Consequently, the effects of | size bombs were | given by |
| 50X1 | bombs were not compared in any way in the equivalents. | manual, except a | to THT |
| 5. | or figures on areas or destruction. | fe dose for huma | were' 50X1 n beings |
| 50X1 | of alpha, beta, and gamma rays in the Atomand Deactivation Manual | nic warrare medica | al Treatment |
| 6. | . Following the description of the destruct: the manual stated that defense against at required adoption of the following measure | Omic Meadous was i | possible and 50×1 |
| | a. Prevention of use of atomic weapons be remember, the manual stressed use of destruction of enemy bombers carrying remember whether guided missiles were | fighter planes an atomic weapons. mentioned in the | |
| 50X1 | as one of the destructive means in th heard that such missiles existed and for this purpose | is respect. Lat they would b | e used 50X1 |
| | b. Establishment of a standard, general of atomic danger, and the immediate t | ransmittal of Suc | n an alarm |
| * 1 | by the use of all available communica bility for giving such an alarm was p group (front) headquarters according did not designate any specific signal | tion means. The laced on the army to the manual. T as a warning of | responsi- or army he manual expected |
| 50X1 | atomic attack. regiment it was raid alarm (given by siren) was at th an alarm for an atomic raid. | established that e same time to be | considered |
| · | c. Organization of atomic reconnaissance by all armed branches. This reconnai out by special detachments whose pers this service and equipped with device In this connection the manual mention | onnel had been tr a for atomic reco | ained for maissance. |
| | (1) Indicator (Indikator) to detect to determine the extent of this taminated passages, if any. No was given by the manual. | area and existing | uncon- |
| | (2) Alphameter (Al'fametr). | | |
| 3.1 | (3) Betameter (Betametr).(4) Gammameter (Gammametr). | • | |
| 50X1 | designations for the various devices naissance. The alphameter, betameter he used to determine the existence as | , and gammameter d concentration (| recon- were to of various |
| 50X1 | radioactive rays in a certain area. by the manual, connaissance, as stated in the manual sence of BRV in a certain area and to immediately to the troops. Further, detachments were to determine the BRV the state of effected zones and mark to | No other details The mission of a , was to determine transmit this in the atomic recons concentration, their boundaries | were given atomic re- ne the pre- nformation naissance to establish with visible |
| | markings, also to logate and indicate | the shortest par | isagos, limany, |

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to expose the infantry to atomic casualties. The manual stressed the need for great mobility of units in order to reduce to a minimum the time in which troops passing through an affected zone would be exposed to radiation.

c. In case of an atomic attack by the Soviets, troops occupying forward positions, i.e., the first three lines of trenches (battalion reserves included) were to be moved three to five kilometers to the rear in order to protect them from the harmful effects of our own atomic weapons. However, in order to protect these three lines of trenches against a surprise enemy attack, the manual envisaged small detachments that were well-organized and protected against atomic effects being left in the forward positions with the task of holding them for Soviet units which would return to them.

| the atomic warfare manual specified the time which these units were to return, in other words, whether it stated the time after which it would be safe for these units to return to the area which might have been affected by atomic weapons.

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- d. Since prior to the start of an atomic attack by the enemy, the enemy would have to evacuate his forward positions and move the bulk of his first line units three to five kilometers to the rear, the manual advised the use of this period for our own attack and possession of unprotected enemy positions.
- e. The units assigned for an attack under atomic warfare conditions were to advance toward the enemy in marching columns protected by advance detachments. The marching units were to deploy for combat only after the advance detachments met with organized resistance from the enemy (organizovannoye soprotivleniye protivnika). Chemical warfare protective clothing was to be worn by troops while advancing toward the enemy.
- whether the manual emphasized decentralization of command. there were quite a number of references, probably in several of the manuals, stressing the necessity for encouragement, promotion, and development of initiative of commanders on all levels as a definite requirement of atomic warfare.
- g. And finally, the manual recommended full use of our own atomic weapons as a countermeasure against enemy atomic warfare.
- 13. With regard to information given by the manual on changed tactics (concentration and role of support units such as artillery, supply, transportation, etc.), there were several references that large troop concentrations, under conditions of atomic warfare, were to be avoided.

 one manual gave rules for the use and role of supporting units such as artillery, supply, transportation, read these chapters.

 made in the strength and organization of units in view of atomic warfare.
- the manuals contained any information on the planned tactical redistribution of forces, such as an increase of reserve forces with a corresponding decrease in force in the front lines, except larger fronts being assigned to individual units.

any of the manuals giving any modified tactical doctrines on locations and sizes of staging areas, location of supply areas and dumps, river crossings, beachheads and amphibious operations, operations in or near populated areas and cities, or troop movethe manual stating that the effects of atomic warfare are considerably smaller in mountainous terrain and that forests represent dangerous areas because fire can be easily started by atomic there was a statement to the effect that atmospheric precipitation such as rain and snow as well as dampness weapons. in the air served as deactivators and reduced the period of contamination of an area affected by radioactive elements. At the same time, 50×1 it said that water as such, once contaminated by radioactive means, would hold this contamination for a long time. This applied especially to large bodies of water such as rivers, lakes. etc. not understand this part of the manual well 50X1 how it was expressed.

- 16. Great emphasis was placed on fire protective and fire extinguishing services as protection against atomic warfare casualties. In this respect the manual envisaged:
 - a. Organization of fire-fighting details within troop units. The manual did not elaborate on this point and did not mention the units within which such details were to be organized.
 - Providing troops with sufficient quantities of fire-fighting equipment.
 - Cutting clearings through the forests and removal of dead wood (valezhnik) in order to prevent the spreading of fire.
 - d. Preparation of ploughed strips in brushy and open areas.
 - e. Removal of all inflammable materials in troop concentration zones.
- 17. As precautions which were to be taken to protect personnel, supplies, and equipment from damage and contamination by an atomic attack by the enemy, the manual mentioned that individual rations had to be wrapped in several sheets of special paper, and guns and equipment had to be dug in and covered with some kind of roofing. There were also instructions in regard to protective measures for large stocks of equipment and warehouses;

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